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on the Contents to navigate to the
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ZHIYUN FIVRAY M60 Ultra Fill Light

User Guide

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Product Overview

The ZHIYUN FIVERAY M60 Ultra is a high-intensity, portable LED pocket fill light that supports full-color adjustment. It can be mounted on tripods or light stands, making it ideal for video recording, live streaming, and still-life photography.

Product highlights are as follows:

1. Compact and lightweight; simple and quick to operate.
2. High color rendering index (CRI), accurately restores the natural colors of objects.
3. Freely adjustable brightness, color temperature, hue, and saturation, offering wide application flexibility.
4. Multiple control methods supported: on-device knobs, mobile app, and master/slave control, enabling efficient and convenient dimming.
5. Electronic back-pressure cooling system provides excellent heat dissipation.
6. Rich, creative RGB lighting effects, easily delivering imaginative shooting scenes.
7. Multiple installation methods: handheld, tripod-mounted, or light-stand-mounted.

Warning

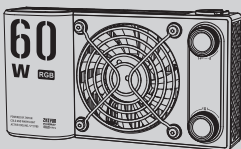
-  This product is not waterproof. Do not expose the product to any liquids. Do not use this product in the rain or humid environments.
-  If water accidentally enters the product during use, stop using it immediately and contact us or authorized maintenance personnel. You may continue to use it only after the product is repaired.
-  It is strictly forbidden to use this product in places with corrosive chemicals, flammable, or explosive materials.
-  To avoid burns, do not touch the heating components when using this product.
-  Please do not cover or block the cooling fan with foreign objects to avoid affecting the product's heat dissipation.
-  To avoid visual impairment, it is strictly forbidden to stare at the luminous LED of this product.
-  Do not place or use this product in a high-temperature environment exceeding 40° C.

Miscellaneous

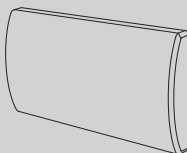
1. This product is a high-precision control device. Damage may be caused if it is dropped or is subject to external impact or compression, and this may result in device malfunctioning.
2. When using this product, keep your hands dry. It is recommended to clean it with a soft, dry cloth.
3. Keep this product out of reach of children.
4. Disconnect the external power supply when the product is not in use.
5. Do not place any objects on this product to prevent potential damage.
6. Protect the product from dust and sand during use.
7. Ensure the product has completely cooled before storage. Store it in a dry, well-ventilated place.
8. Do not attempt to disassemble this product yourself. In case of malfunction, contact our company or authorized service personnel for repairs.

Packing List

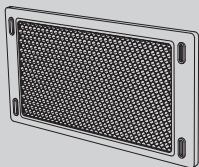
The product package comes with the following items. If there are any missing items, please contact ZHIYUN or your local distributor.



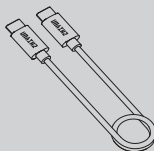
Master unit x 1



Diffuser x1



Honeycomb Grid x1

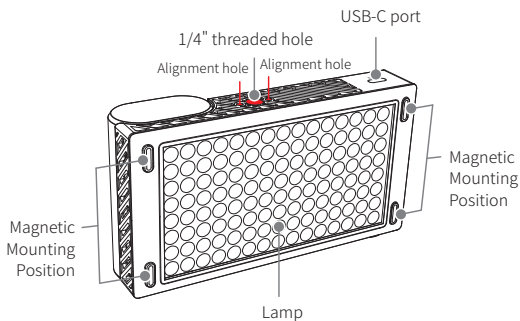
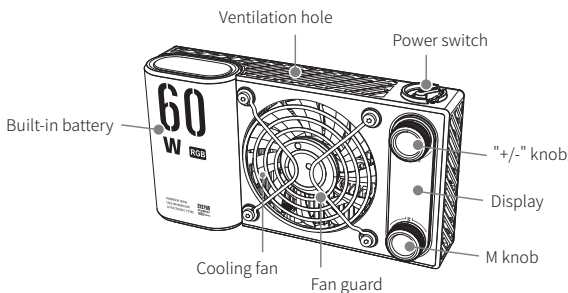


USB Type-C Cable x1



Quick Start Guide x1

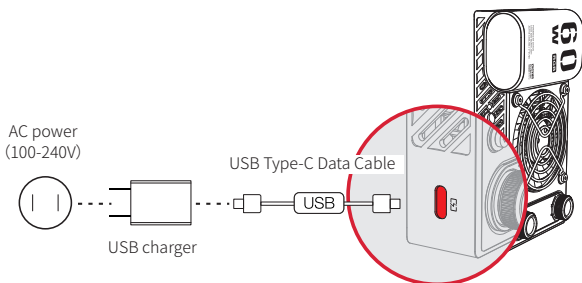
Getting to Know the ZHIYUN FIVERAY M60 Ultra Fill Light (hereinafter referred to as "M60")



Charging Instructions

This product features a built-in battery. Before first use, fully charge the M60 to activate the battery and ensure proper operation.

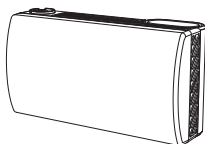
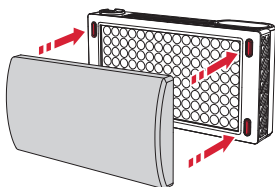
Charging Method: Use the included USB Type-C data cable to connect the M60 to a USB charger. We recommend using a charger that supports PD fast charging protocol. When charging and using the device at the same time, the charger will prioritize powering the M60. Any remaining power will be used to charge the battery. The battery supports a maximum charging power of 25 W.



- ① It is recommended to fully charge the M60 before each use, as low battery may affect its performance.
- ② USB charger not included.

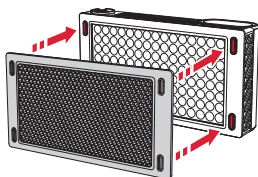
Installing and Removing the Diffuser

Align the four corners of the diffuser with the four magnetic mounting positions on the M60 light body, then magnetically attach the diffuser to the M60 light body to complete the installation. To remove, simply detach the diffuser from the M60.

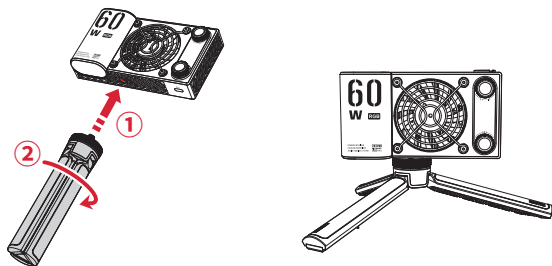


Installing and Removing the Honeycomb Grid

Align the four corners of the honeycomb grid with the magnetic mounting position on the M60 light body, then attach it magnetically to complete installation. To remove, simply pull the honeycomb grid off the M60.

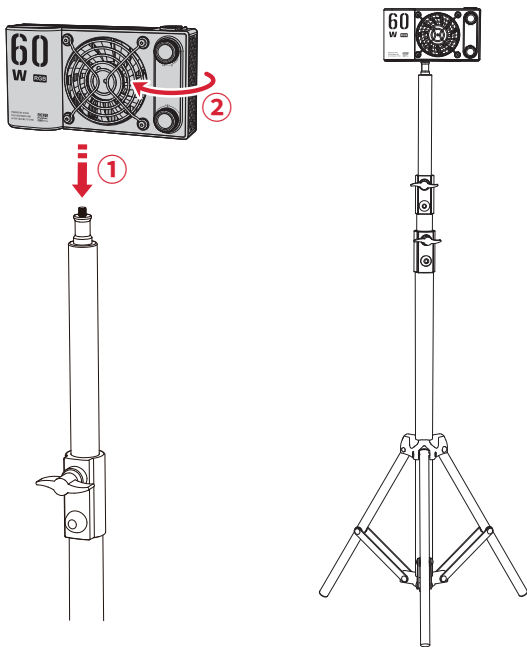


Align the 1/4-inch screw on the top of the tripod with the 1/4-inch threaded hole on the bottom of the M60, then screw the M60 onto the tripod.



💡 The tripod needs to be purchased separately.

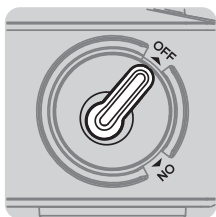
Align the 1/4-inch threaded hole on the bottom of the M60 with the 1/4-inch screw on the top of the light stand, then secure the M60 onto the stand.



 The light stand is sold separately.

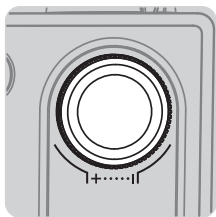
- ⚠ Do not look directly at the luminous LEDs while the M60 is operating.
- ⚠ The M60 is rated IP20 for ingress protection.

Knob Function Description



Power Switch:

Rotate: Power on/off.

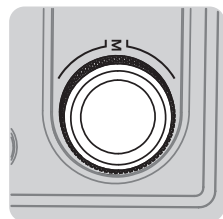


"+" "-" knob:

Press: Quickly adjust the current parameters.

Confirm (submenu)

Rotate: Adjust the current parameters.



M knob:

Press: Switch the work mode.

Return to the previous menu.

Press twice: Switch to the previous work mode.

Press three times: Reset Bluetooth.

Rotate: Switch the option (on the dimming interface).

Switch the menu (on the menu interface).

Press and hold: Enter/exit the menu interface.

Instructions

1. Color Temperature Mode Settings (CCT)

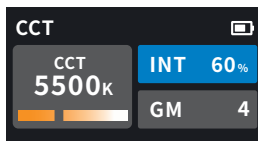
Press the **M knob** to switch to color temperature mode, and rotate the **M knob** to switch to the color temperature/brightness/red-green option.

Press/rotate the **" +/- " knob** to adjust the values.

Brightness range: 0-100%

Color temperature range: 2500 K–10000 K

Red and green adjustment range: -10–10



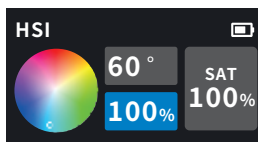
2. Hue mode setting (HSI)

Press the **M knob** to switch to hue mode, and rotate the **M knob** to switch to the hue/brightness/saturation option. Press/rotate the **" +/- " knob** to adjust the values.

Hue range: 0° –360°

Brightness range: 0-100%

Saturation adjustment range: 0-100%



3. RGB mode setting (RGB)

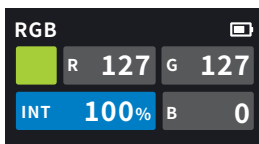
Press the **M knob** to switch to the RGB mode, and rotate the **M knob** to switch to the brightness/red/green/blue option. Press/rotate the **"+"/-" knob** to adjust the values.

Brightness range: 0-100%

R range: 0-255

G range: 0-255

B range: 0-255



4. Special Effects Mode Settings (FX)

Click the **M knob** to switch to special effects mode, rotate the **M knob** to change the effect type, click the **"+"/-" knob** to enter the special effects parameter adjustment interface, rotate the **M knob** to switch parameter options, and click/rotate the **"+"/-" knob** to adjust the corresponding values.

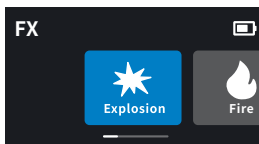
Effect type: Explosion, flame, paparazzi, broken light bulb, TV, lightning, flash, welding, color temperature breathing, color temperature cycling, color cycle, color breathing, party, firework, police car

Brightness range: 0-100%

Color temperature range: 2500 K-10000 K

Red and green adjustment range: -10-10

Speed range: 1-5



- ① The adjustable parameter properties vary depending on the special effect types. However, the operation methods are the same. Here, the explosion special effect is used as an example for illustration.
- ② The parameter value for a single special effect is only valid within the current special effect.

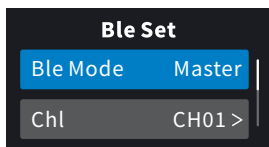
5. Menu Settings (MENU)

Press and hold the **M knob** to enter the menu setting interface.

5.1) Bluetooth Settings

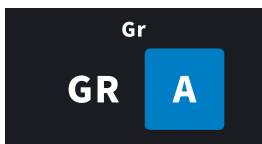
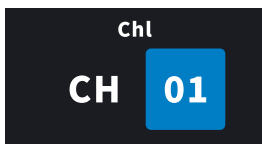
Bluetooth Mode Settings

Rotate the **M knob** to navigate to Bluetooth Settings. Press the **" +/- " knob** to enter the settings menu, and then rotate the **" +/- " knob** to choose the desired mode.



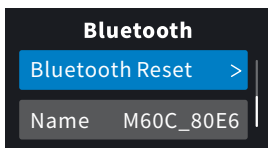
Channel/Group Settings

Rotate the **M knob** to select Bluetooth Settings, and press the **" +/- " knob** to enter. Rotate the **M knob** to navigate to Channel/Group Settings, and press the **" +/- " knob** again to enter the Channel/Group configuration interface. Rotate the **" +/- " knob** to set the channel or group number.



Resetting Bluetooth

Rotate the **M knob** to enter Bluetooth Settings, then press the **"+/-" knob**. Rotate the **"+/-" knob** to switch to MESH Mode. Next, rotate the **M knob** to locate Bluetooth Sub-settings, then double-press the **"+/-" knob** to enter the Reset Bluetooth interface. Rotate the **M knob** to select Yes or No, then press the **"+/-" knob** to confirm.



5.2) Language Settings

Rotate the **M knob** to switch to the language setting option. Press the **"+/-" knob** to enter the setting interface. Rotate the **M knob** to select the desired language type, and press the **"+/-" knob** for confirmation.



5.3) Product Information

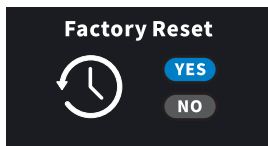
Rotate the **M knob** to switch to the product information option.

Press the **"+/-" knob** to enter the product information interface, where you can view information such as product name, device model, and firmware version.

Information	
Name	M60 Ultra
Model	PLM110
Veraion	v1.5.3

5.4) Restoring Factory Settings

Rotate the **M knob** to switch to the factory resetting option. Press the **"+/-" knob** to enter the setting interface. Rotate the **M knob** to select Yes or No, and press the **"+/-" knob** for confirmation.



Master-Slave Control Instructions

The M60 supports master-slave control functionality. When multiple M60 units are set to the same channel and within the same group, the master unit can control the slave units. Follow the steps below to set up:

- ① Set the Bluetooth mode of the controlling M60 to Master, and configure its channel and group.

Ble Set

Ble Mode

Master

Chl

CH01 >

Ble Set

Chl

CH01 >

Gr

GRA >

- ② Set the Bluetooth mode of the M60 units to be controlled to Slave, and make sure their channel and group match those of the master unit.

Ble Set

Ble Mode

Slave

Chl

CH01 >

Ble Set

Chl

CH01 >

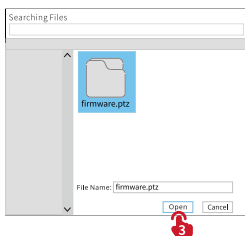
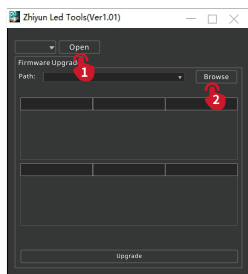
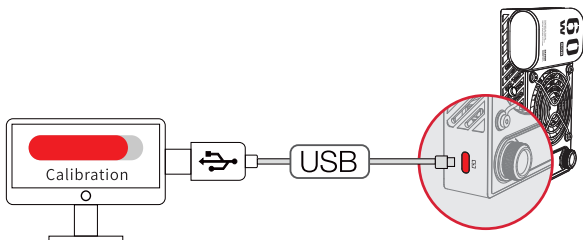
Gr

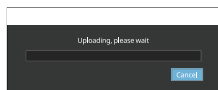
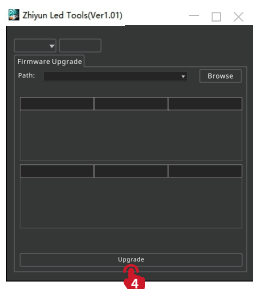
GRA >

💡 The master unit can only control the dimming parameters of the slave units. It cannot control menu-related settings.

You can use the "Zhiyun Led Tools" or the "ZY Vega" app to upgrade the M60 firmware. Method 1:

1. Visit the ZHIYUN official website at www.zhiyun-tech.com. On the M60 product page, find the "Download" page, and download the upgrade tool and firmware.
2. Decompress the firmware package to obtain a file with the extension ".ptz".
3. Use a USB Type-C data cable to connect the USB-C port of the M60 to the USB port of the computer.
4. Open the "Zhiyun Led Tools", then click "Open" at the top of the tool. Click "Browse" under "Path" to select the latest firmware file downloaded (with the .ptz extension). Finally, click "Upgrade" at the bottom of the tool to enter the upgrade mode. After a successful upgrade, the M60 will automatically restart.





Method 2:

You can use the "ZY Vega" app to upgrade the M60 firmware. For more operation steps, visit the ZHIYUN official website at www.zhiyun-tech.com to watch the M60 video tutorials.

- 💡 ① If you adopt Method 1, wait until the display shows that update is successful before unplugging the USB Type-C data cable.
- ② Before upgrading the firmware, please ensure that the M60 has more than 50% power. During the upgrade process, do not exit the app interface or switch to the background. Please pay attention to the prompts on the app.

Product model: PLM110

Battery Capacity	4500mAh/3.7V/33.3Wh	
Power	60W	
Color temperature range	2500K-10000K	
Dimming range	0-100%	
Number of LEDs	120pcs	
Color Rendering Index (CRI/TLCI)	CRI $\geq$ 95 TLCI $\geq$ 97	
CQS	$\geq$ 95	
SSI(D32)	84	
SSI(D56)	75	
TM-30 Rg	95	
TM-30 Rf	100 $\pm$ 3	
Illuminance (at Maximum Power)	6490(lux)	Lab Data 1
Red light illuminance	511(lux)	
Green light illuminance	1040(lux)	Lab Data 2
Blue light illuminance	341(lux)	
Runtime (at Maximum Power)	30min	Lab Data 3
Charging Time	1H 46min	Lab Data 4
USB power/voltage	P $\geq$ 18W U $\geq$ 9V	
Operating environment temperature	-10°C~ 40°C	
Product dimensions (bare unit)	150*80*37.3mm	

Product Net Weight

430g

Laboratory Data 1: This data was obtained under the following conditions: ambient temperature of 25°C, indoor brightness below 0.1 lux, test distance of 0.5 m, color temperature set to 6500 K, and brightness at 100%. The measured illuminance was 6490 lux. Actual illuminance of M60 may vary depending on ambient lighting conditions.

Laboratory Data 2: The data is obtained under the conditions of an ambient temperature of 25°C, a test distance of 1 m, an indoor brightness of less than 0.1 (lux), a brightness of 100%, a saturation of 100%. The red, green, and blue light illuminance of the M60 is 511 (lux), 1040 (lux), and 341 (lux), respectively. The actual red/green/blue illuminance will vary depending on the ambient brightness.

Laboratory Data 3: This data was obtained with an ambient temperature of 25°C, the M60 fully charged, color temperature set to 4300 K, and brightness at 100%. The measured runtime was 30 minutes. Actual runtime of M60 may vary depending on usage duration, the number of charge/discharge cycles, and battery health. As the M60 is used over time, the increasing number of battery cycles leads to reduced battery health, which in turn shortens the runtime.

Laboratory Data 4: This data was obtained under the conditions of an ambient temperature of 25°C using 25W PD fast charging. The measured charging time was 1 hour and 46 minutes. Actual charging time may vary depending on environmental conditions. Lower ambient temperatures reduce the charging current, resulting in longer charging times.

All the data in this guide was gathered from internal experiments from ZHIYUN's laboratories. The data may differ to some extent under different scenarios so please refer to the actual use of the M60.

Thank you for purchasing this product. The information contained herein affects your safety, legitimate rights and obligations. Please read this instruction carefully to ensure proper configuration before use. Failure to read and follow this instruction and warnings herein may result in serious injury to you or bystanders, or damage to your device or property. Guilin Zhishen Information Technology Co., Ltd (hereinafter referred to as "ZHIYUN") reserves all rights for final explanation of this instruction and other documents related to this product. The information is subject to update without notice. Please visit www.zhiyun-tech.com to obtain the latest product information.

By using this product, you hereby signify that you have read this document carefully and that you understand and agree to abide by the terms and conditions herein. You agree that you are solely responsible for your own conduct while using this product, and for any consequences thereof. You agree to use this product only for purposes that are proper and in accordance with all terms, precautions, practices, policies and guidelines ZHIYUN has made and may make available.

ZHIYUN accepts no liability for damage, injury or any legal responsibility incurred directly or indirectly from the use of this product. Users shall observe safe and lawful practices including, but not limited to, those set forth herein.

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Reading Tips

Legends:  Hints and Tips

 Important

Safe Operation Instructions

Read the ENTIRE User Guide to become familiar with the features of this product before operating. Failure to operate the product correctly can result in damage to the product or personal property and cause serious injury. This is a sophisticated product. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this product in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision.

DO NOT use with incompatible components or in any way otherwise as mentioned or instructed in the product documents provided by ZHIYUN. The safety guidelines herein contain instructions for safety, operation and maintenance. It is essential to read and follow all of the instructions and warnings in the User Guide, prior to assembly, setup or use, in order to operate the product correctly and avoid damage or serious injury.

Warranty Period

1. Customers are entitled to replacement or free repair service in case of quality deficits found in the product within 15 days upon receipt of the product.
2. Customers are entitled to free repair service from ZHIYUN for any product proven defective in material or workmanship that results in product failure during normal consumer usage and conditions within the valid warranty period, which is 12 months counting from the date of selling. However, warranty period varies by product component and country of purchase. Please contact our after-sales service team on ZHIYUN official website or your place of purchase for detailed warranty information.

Warranty Exclusions

1. Products subjected to unauthorized repair, misuse, collision, neglect, mishandling, soaking, accident, and unauthorized alteration.
2. Products subjected to improper use or whose labels or security tags have been torn off or altered.
3. Products whose warranty has expired.
4. Products damaged due to force majeure, such as fire, flood, lightning, etc.

Warranty Claim Procedure

1. If failure or any problem occurs with your product after purchase, please contact a local authorized dealer for assistance, or you can always contact ZHIYUN's customer service through email at info@zhiyun-tech.com or website at www.zhiyun-tech.com.
2. Your local authorized dealer or ZHIYUN's customer service will guide you through the whole service procedure regarding any product issue or problem you have encountered. ZHIYUN reserves the right to reexamine damaged or returned products.

Customer Information

Customer Name:

Phone Number:

Address:

Sales Information

Sales date:

Product Serial Number:

Distributor Name:

Distributor's Contact Number:

First Maintenance Record

Service Date:

Repairman Signature:

Cause of Problem:

Service Result:

☐ Solved

☐ Unsolved

☐ Refunded/Replaced



Website



Weibo



Vimeo



Google+



Facebook
(Zhiyun Support)



Facebook
(Zhiyun Tech)



Youku



Youtube



WeChat



Instagram

Tel: +86 400 900 6868

USA Hotline: +1 808-319-6137, 9:00-18:00 GMT-7, Mon-Fri

Europe Hotline: +49 (0) 61018132180, 10:00-17:00 GMT+1, Mon-Fri

Web: www.zhiyun-tech.com

E-mail: info@zhiyun-tech.com

Address: 09 Huangtong Road, Tieshan Industrial Zone, Qixing District, Guilin, 541004, Guangxi, China

Certificate of Quality

This product is confirmed to meet quality standards and permitted for sale after strict inspection.

QC Inspector: _____



For full product information, please visit ZHIYUN's official website: Content on www.zhiyun-tech.com is subject to update without notice.

ZHIYUN™ is a trademark of ZHISHEN

All product names or brands referred to hereunder may be trademarks or registered trademarks of their respective holders.

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FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

- English: "

This device complies with Industry Canada licence-exempt RSS standard (s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device."

- French:"

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."

MODIFICATION: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the device.

Toute modification non approuvée explicitement par le fournisseur de licence de l'appareil peut entraîner l'annulation du droit de l'utilisateur à utiliser l'appareil.

IC Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Déclaration d'exposition au rayonnement IC:

Cet équipement est conforme aux limites d'exposition au rayonnement IC fixées pour un Environnement non contrôlé. Cet équipement doit être installé et exploité Avec une distance minimale de 20cm entre le radiateur et votre corps.

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